

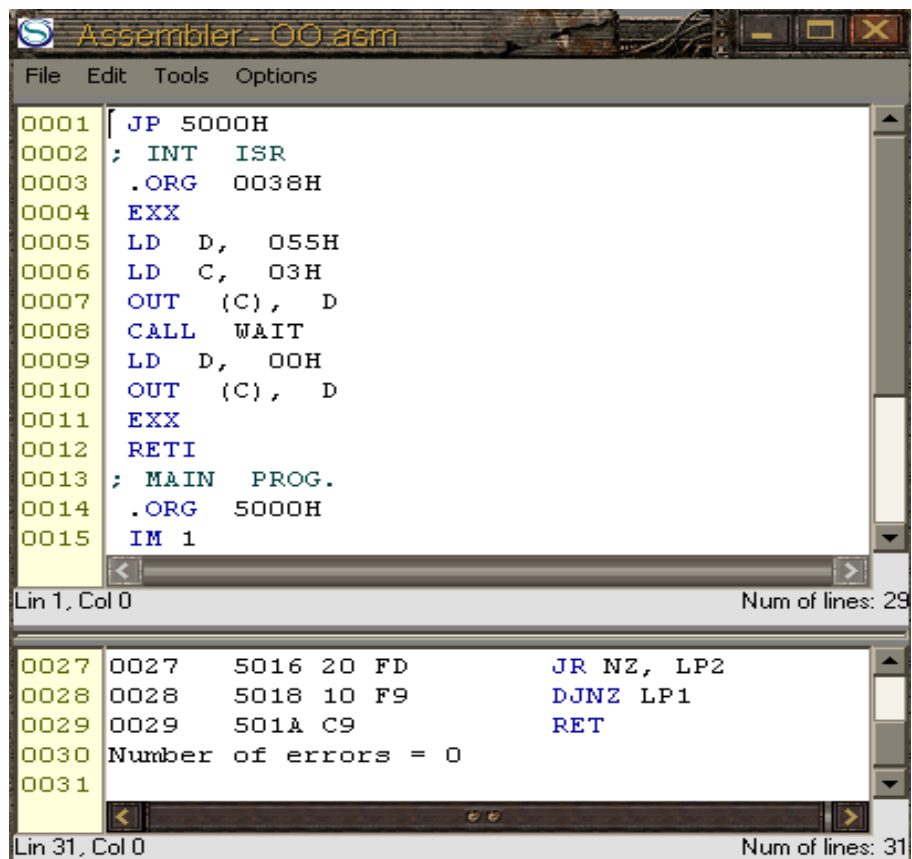
## Fourth Communications

### lab1\_organization

#### Sec (1)

- 1- Asmaa Abdelmonem Eyssa**
- 2- Asmaa Mohamed Kamal**
- 3- Asmaa Shaban Mahmoud**

1



2



**11-Comment of the out on port 02 :**the out is the rotate right of content of the register D it represented by led.

If the light is on (represent logic (1)), if the light is off (represent logic (0)).

3



**12-if click on button (INT)**

\*the out on port 02 is pause (the led not rotate at min time

the out is 80H or 40H or 20H or 10H or 08H or 04H or 02H or 01H

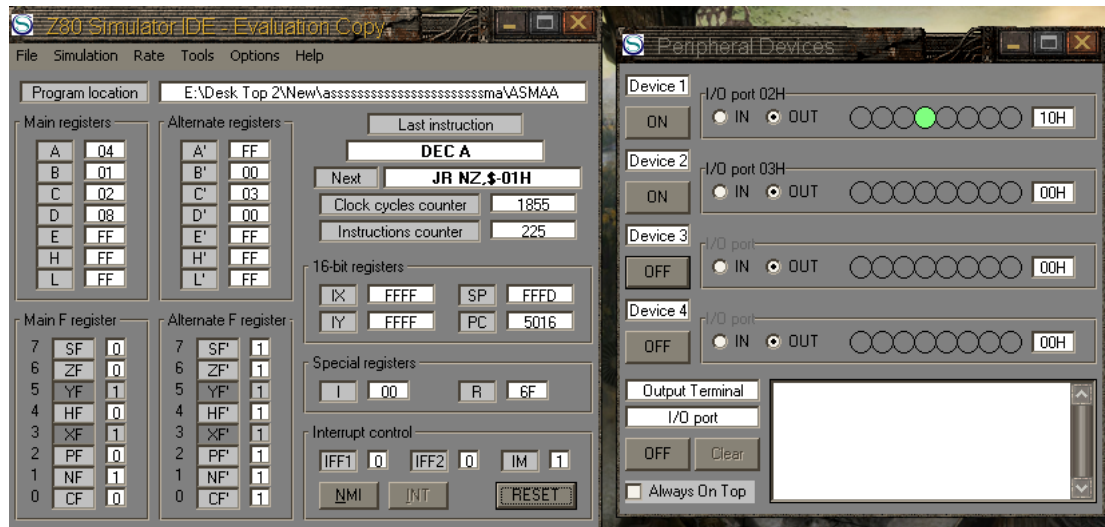
\*the out on port 03 is 55H and after min time the out is 00H

**13- the content of pc register :** befor click on (INT) the content is the adresses of

instructions of the main programe

after click on (INT)the pc contents is increment by 1(pc=pc+1)

4

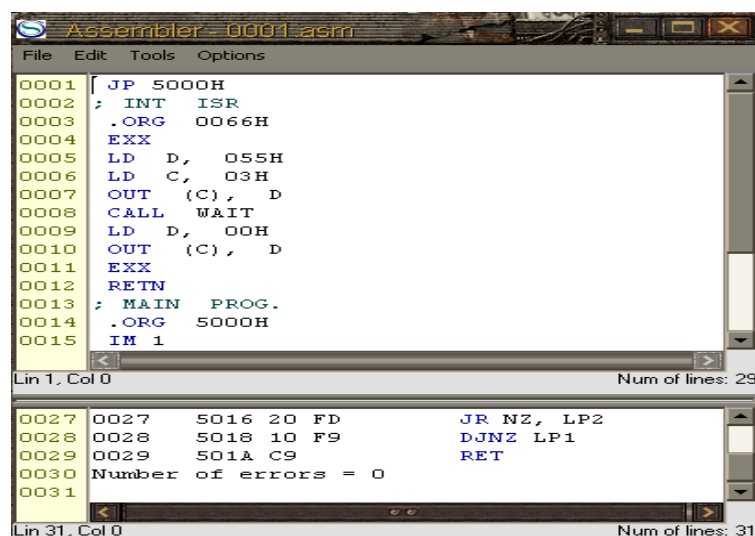


**15-to become (INT) enable:** we should excute the main programe at first  
and the pc =5000H

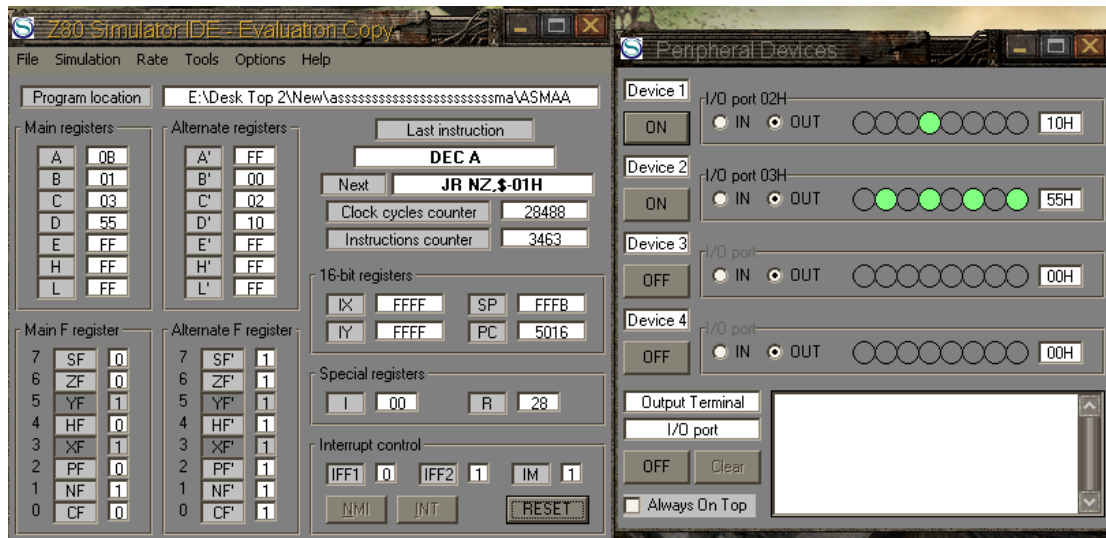
by click on the reset button the main programe excute and the (INT)is  
enable

## PART 2. NON-MASKABLE INTERRUPTS:

I



II



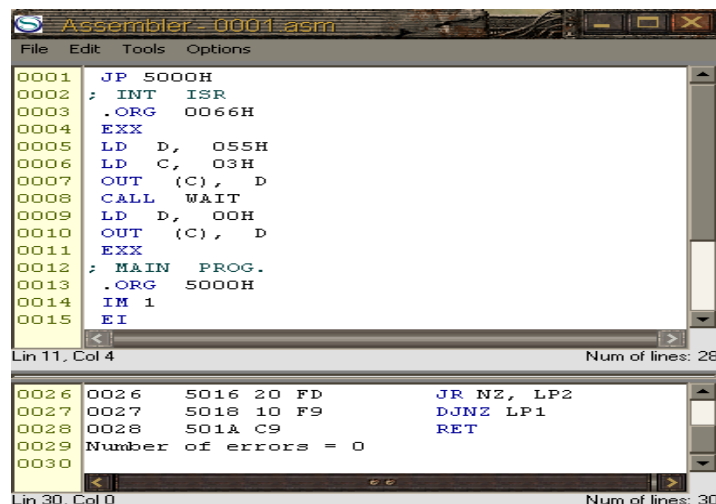
III



IIII



**RETN** This instruction will restore the original state of the (INT) enable/disable system .





**2-if remove RETN from the programe and click on (NMI)**  
**the (INT)and(NMI)are disable and then the program stop .**  
**RETN it allow the interrupt to be excuted .**